SUPERMICR SuperServer 6019P-MT/MTR Quick Reference Guide



Jumpers and Connectors

S-SATA1

JWD

| Jumper | Description | Default Setting | | |
|----------------------|--|---|--|--|
| JBT1 | Clear CMOS | Open (Normal) | | |
| JPG1 | VGA Enable/Disable | Pins 1-2 (Enabled) | | |
| JPME2 | Manufacturer (ME) Mode Select | Pins 1-2 (Normal) | | |
| JVRM1 | VRM SMB Clock (to BMC or PC | H) Pins 1-2 (BMC, Normal) | | |
| JVRM2 | VRM SMB Data (to BMC or PCH |) Pins 1-2 (BMC, Normal) | | |
| JWD1 | Watch-Dog Timer | Pins 1-2 (Reset) | | |
| Connector | Description | | | |
| Battery (BT1) | Onboard COMS battery | | | |
| COM 1 | Front Panel COM Port 1 | | | |
| FAN 1~6 | System cooling fan headers | | | |
| FANA/FANB | Thermal fan headers for I/O add | -on cards | | |
| JF1 | Front_Panel_Control Header | | | |
| J25 | USB 2.0 Header for USB Ports 2 | 2/3 | | |
| J26 | USB 3.0 Type A port for USB4 | | | |
| JPWR1/2 | 8-pin Power Connector | 8-pin Power Connector | | |
| JPWR3 | 24-pin Power Connector | 24-pin Power Connector | | |
| JPI2C1 | Power Supply I ² C Connector | | | |
| JSD1/JSD2 | Power connector for SATA DOM | | | |
| JSTBY1 | Wake On LAN Header | | | |
| IPMI_LAN | Dedicated IPMI LAN port | | | |
| JIPMB1 | 4-pin external BMC I2C header (| for an IPMI card) | | |
| JNVI ² C1 | NVMe I ² C headers | | | |
| JRK1 | RAID key for CPU NVMe SSD | | | |
| JSDCARD1 | Micro SD Card slot | | | |
| JTPM1 | Trusted Platform Module (TPM)/Port 80 connector | | | |
| M.2 | M.2 Slot | | | |
| (I-)SATA0~3, 4~7 | I-SATA 3.0 connectors supported by the Intel PCH | | | |
| (S-)SATA0/1 | S-SATA 3.0 connectors supported by the Intel PCH | | | |
| SP1 | Internal Speaker | | | |
| USB0/1 | Back panel USB 3.0 ports | | | |
| VGA | VGA port | | | |
| LED | Description | Status | | |
| LE1 | UID (Unit Identifier) LED | Solid Blue: Unit Identified | | |
| LE6 | Onboard Power LED | Solid Red: Standby Solid Green: Power On | | |
| LEDM1 | BMC Heartbeat LED | Blinking Green: BMC Normal | | |

Memory Front View Note: Notch should align with the receptive key point on the slot. Release Tab

| Processors and their Corresponding Memory Modules | | | | |
|---|----------------------------|-----------|-----------|-----------|
| CPU# | Corresponding DIMM Modules | | | |
| CPU 1 | P1-DIMMA1 | P1-DIMMB1 | P1-DIMMD1 | P1-DIMME1 |
| CPU 2 | P2-DIMMA1 | P2-DIMMB1 | P2-DIMMD1 | P2-DIMME1 |

Memory Population for Optimal Performance For a Motherboard with Two CPUs (CPU1 & CPU2)

| Corresponding DIMM Modules | | | |
|----------------------------|-------------------------------------|---|---|
| 4 DIMMS | | | |
| P1-DIMMA1 | P1-DIMMB1 | P1-DIMMD1 | P1-DIMME1 |
| | | | |
| | 8 DIMMS | | |
| P1-DIMMA1 | P1-DIMMB1 | P1-DIMMD1 | P1-DIMME1 |
| P2-DIMMA1 | P2-DIMMB1 | P2-DIMMD1 | P2-DIMME1 |
| | P1-DIMMA1 P1-DIMMA1 P2-DIMMA1 | Corresponding P1-DIMMA1 P1-DIMMB1 P1-DIMMA1 P1-DIMMB1 P1-DIMMA1 P1-DIMMB1 P1-DIMMA1 P1-DIMMB1 P1-DIMMA1 P1-DIMMB1 | Corresponding DIMM Modules IMMS P1-DIMMA1 P1-DIMMB1 P1-DIMMD1 P1-DIMMA1 P1-DIMMB1 P1-DIMMD1 P1-DIMMA1 P1-DIMMB1 P1-DIMMD1 P1-DIMMA1 P1-DIMMB1 P1-DIMMD1 P2-DIMMA1 P2-DIMMB1 P2-DIMMD1 |

Populating RDIMM/LRDIMM DDR4 Memory Modules

| | | Denks Der DIMM and DATA Width | DIMM Capacity (GB) | | Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Cahennl (DPC) |
|----------|------------|-------------------------------|--------------------|---------------------------|--|
| ыми туре | | DRAM Density | | 1 Slot per Channel (1DPC) | |
| | | 4Gb | 8Gb | 1.2V | |
| | RDIMM | SRx4 | 8GB | 16GB | |
| | | SRx8 | 4GB | 8GB | |
| | | DRx8 | 8GB | 16GB | |
| | | DRx4 | 16GB | 32GB | |
| | RDIMM 3DS | QRx4 | N/A | 2H-64GB | 2666 |
| | | 8Rx4 | N/A | 4H-128GB | |
| | LRDIMM | QRx4 | 32GB | 64GB | |
| | LRDIMM 3DS | QRx4 | N/A | 2H-64GB | |
| | | 8Rx4 | N/A | 4H-128GB | |

Beep Codes

| Beep Code | Error Message | Description |
|-------------------|------------------------------------|--|
| 1 short | Refresh | Circuits have been reset (Ready to power up) |
| 5 short, 1 long | Memory error | No memory detected in the system |
| 5 long, 2 short | Display memory read/write error | Video adapter missing or with faulty memory |
| 1 long continuous | System OH | System overheat condition |

| | SUPERMICRO* Image: Constraint of the state of the |
|-----|---|
| No. | Description |
| 1 | Information LED |
| 2 | NIC2 LED |
| 3 | NIC1 LED |
| 4 | HDD LED |
| 5 | Power LED |
| 6 | Reset Button |
| 7 | Power Button |

Front View & Interface

Rear View 8 5432 1 6

| No. | Description |
|-----|--|
| 1 | 1 PCI-E 3.0 x8 FH Expansion Slot |
| 2 | UID Button |
| 3 | 2 RJ45 GbE LAN Ports |
| 4 | 2 USB Ports |
| 5 | 1 Dedicated IPMI LAN Port |
| 6 | VGA Port |
| 7 | Redundant 600W Platinum Level Power Supplies |
| 8 | 600W Platinum Level Power Supply |
| | |

